

RENEWABLE ENERGIES

in Provence



Abundant natural resources

Provence-Alpes-Côte d'Azur

- **Exceptional** natural resources with over **2,500 hours** of sunshine every year (300 days).
- Incentive schemes designed to boost the development of solar heating and photovoltaic installations.

ACTIONS and PROJECTS

Alter-Iter Project: “1 Green Euro for Every Atomic Euro”

The Paca region strongly believes in the principle of ‘give and take’, and consequently donates €1 to Sustainable Development every time that it allocates €1 for the construction of ITER (nuclear fusion).

This means that over 70 million Euros has to be allocated to the protection of the environment, i.e. sustainable energies, energy control and eco-development.

Creation of a Resources Centre

Focusing on environmental qualities, with a total investment of 30 million Euros.

Creation of the CAPENERGIES Competitiveness Cluster in the PACA region

(Energies that do not generate greenhouse gasses), designed to encompass and develop all R&D, business and local administration skills.

This competitiveness cluster focuses on research, production and the control of consumption. It works closely alongside another “DERBI” (Development of Renewable Energies in Building and Industry) competitiveness cluster.

“The Environment Charter” in the Vaucluse

A means of achieving solidarity and sustainability in the development of the Vaucluse region. The principal objective is to control energy spending and generate energy savings in the housing, economic activities and transport sectors, with priority given to the production of renewable energies.

The Luberon Regional Park

The Luberon Regional Park is one of the most advanced regions in France with regard to implementing integrated energy initiatives. This global approach is in phase with the Charter, which decrees that the Park must serve as a “laboratory for sustainable development”, and must implement concrete energy-saving and Renewable Energy applications

An example in the Vaucluse

The specialist centre for handicapped people in Saïgnon has a Solar heating installation.



Renewable Energies

A political priority for the Region

The Provence-Alpes-Côte d’Azur Region has adopted the development of Renewable Energies as one of the fundamental principles of its energy policy.

The ‘Sunshine’ plan, in conjunction with sizeable grants, is boosting the market:

For private individuals

- A tax credit of 50%.
- A lower VAT rate of 5.5 %.
- A grant from the ANAH (National Agency for Home Improvement).

For businesses and local administrations

Financial aid for installations (which meet the required criteria fitted by a Qualisol approved professional.

- Private sector (excluding small/mid-sized companies): up to 40%.
- Private sector (small/mid-sized companies): up to 70%.
- Agricultural sector: up to 50%.
- Public and community sector: up to 80%.



Introduction of a “Renewable Energies Cheque”:

A grant of €700 is offered for solar installations, with a solar heating supplement of €350 for every Individual Solar Water-Heater.

- 2005: 50 requests for renewal energy cheques.
- 2006: a **500% increase** over the first 6 months.

A significant increase in professional and public events

NaturAvignon - An event designed to boost public awareness of environmental issues. Held at the Souvine estate in Montfavet-Avignon.

Action Mérindol Environnement - An association that concentrates on protecting the natural environment and optimising water and air quality. Organisation of a trade-fair and international “ECO-ENERGIES” meetings (Energy savings, Renewable energies and Eco-construction) in Mérindol in the Vaucluse www.ecoenergies.net

A market seeing exponential growth

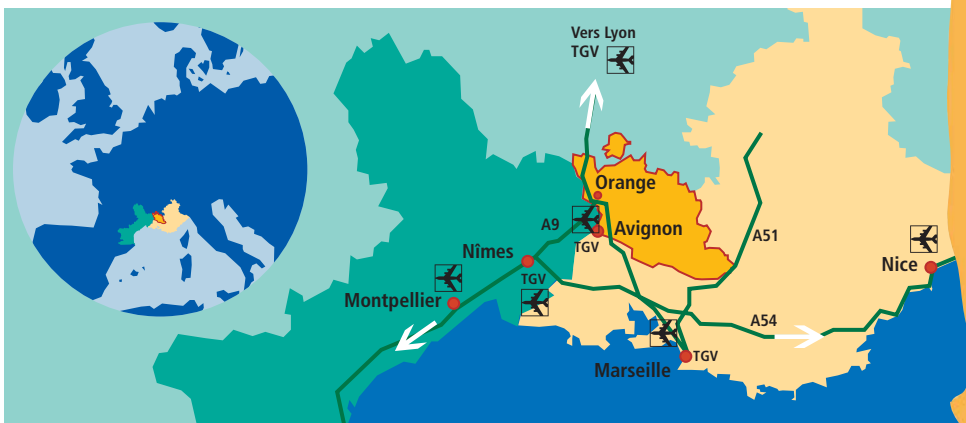
And a very favourable environment for the development of Renewable Energies

- Outstanding potential: a **313%** increase in the number of solar installations in the Vaucluse region between 2004 and 2005.
- A very significant increase in demand, with **120 solar installations** completed during the first 6 months of 2006.
- An increase in the number of professionals and in their level of qualification (the Qualisol Charter).
- A tough energy environment in the Provence-Alpes-Côte d'Azur region: not even 50% of the total electricity consumed is produced within the region. A massive re-orientation of the regional energy policy is consequently required.
- Major growth in the construction sector (both the public and private sector), which is essentially linked to new energy installations that have excellent prospects.



The Vaucluse is an exceptional geo-strategic location

Within easy reach of markets seeing strong growth (France, Italy, Spain and the Mediterranean arc), and with a diverse and highly-developed communication network (TGV [high speed train], motorways, waterways, railways and airports...)



A large number of R&D organisations, institutional partners and associations all striving to accelerate the development of Renewable Energies

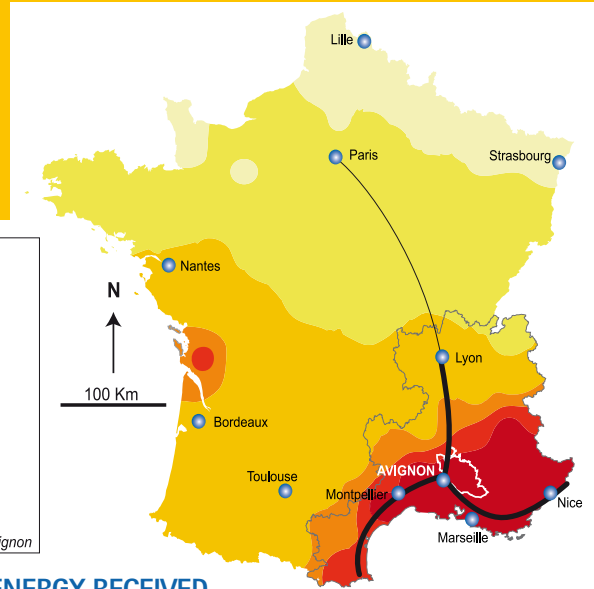
- **Ademe PACA** - (The Environment and Energy Control Agency), the technical and administrative partner for the development of Renewable Energy projects.
- **Enerplan** - This organisation is a grouping of Renewable Energy professionals (manufacturers, research centres, architects, operators, research departments etc...). ENERPLAN acts as an interface between the public authorities, local administrations, the general public and professionals.
- **GERES** - (Renewable Energies and Environment Group).
- **UDVN 84** - Association for the environment and the development of Renewable Energies.
- **CSTB** - Scientific and Technical Centre for the Building sector). This organisation supports the usage of positive energy in building projects.
- **DRIRE et DIREN PACA** - Heavily involved in the national strategy for Sustainable Development and the development of energies. They also act as technical partners for project backers.

A high-performance network of Renewable Energy specialists

- **VOLTWERK** (Germany): Research department for Renewable Energy projects and constructions - Avignon (84).
- **SCHMEES BAU GmbH** (Germany): Specialises in the construction of foundations for windpump installations.
- **TECSOL** technical solar company (Orange - France): Solar heating engineering. Engineering consultants for alternative energies.
- **ALTERNAT'STYLE** (France): A shop specialising in ecological constructions and the sales & marketing of windpump and solar products.
- **VISSMANN** (Germany): One of the biggest importers of heating equipment.
- **KAORA** (France): Consulting Services and Surveys in the field of Renewable Energies. Experts in Energy demand.

RENEWABLE ENERGY

in Provence



Hours of sunshine (Hour/year)

- < 1700
- 1700 - 1900
- 1900 - 2100
- 2100 - 2300
- 2300 - 2500
- > 2500

● Main city

Source : Météo France 2008
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Realized by M2 GEOTER, University of Avignon

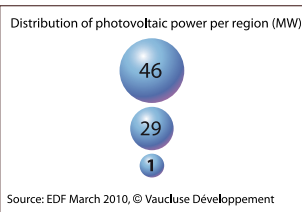
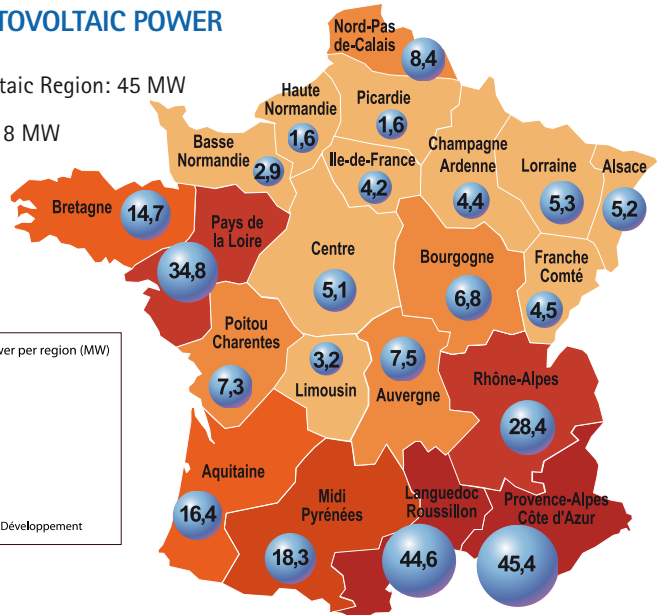
SOLAR ENERGY RECEIVED

- Over 2,500 hours of sunshine every year (300 days)
- Solar energy received in Provence-Alpes-Côte d'Azur: 1.600 to 1.700 kWh/sq.m/year

**AN IDEAL
GEOSTRATEGIC
POSITION**

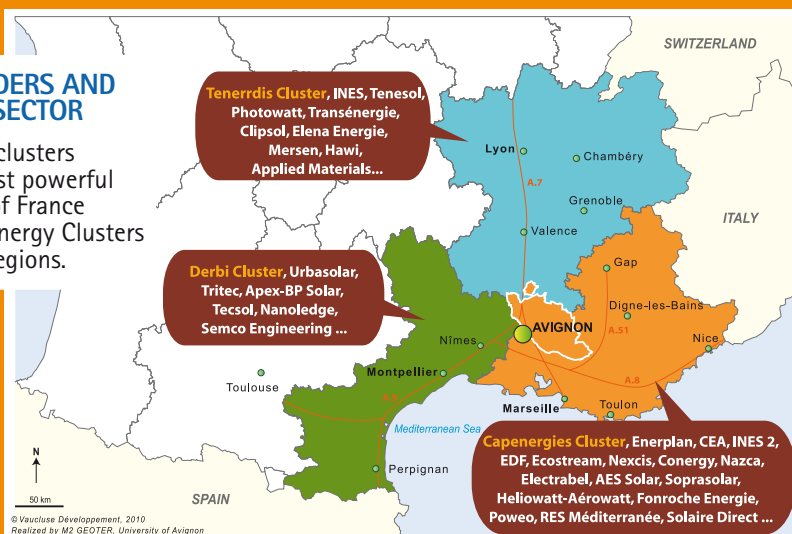
DISTRIBUTION OF PHOTOVOLTAIC POWER (March 2010)

- The Vaucluse is part of the 1st photovoltaic Region: 45 MW
- And at the crossroad of the 1st, 2nd, and 4th photovoltaic French Regions: 118 MW
- These 3 Regions represent more than 43% of the French photovoltaic market



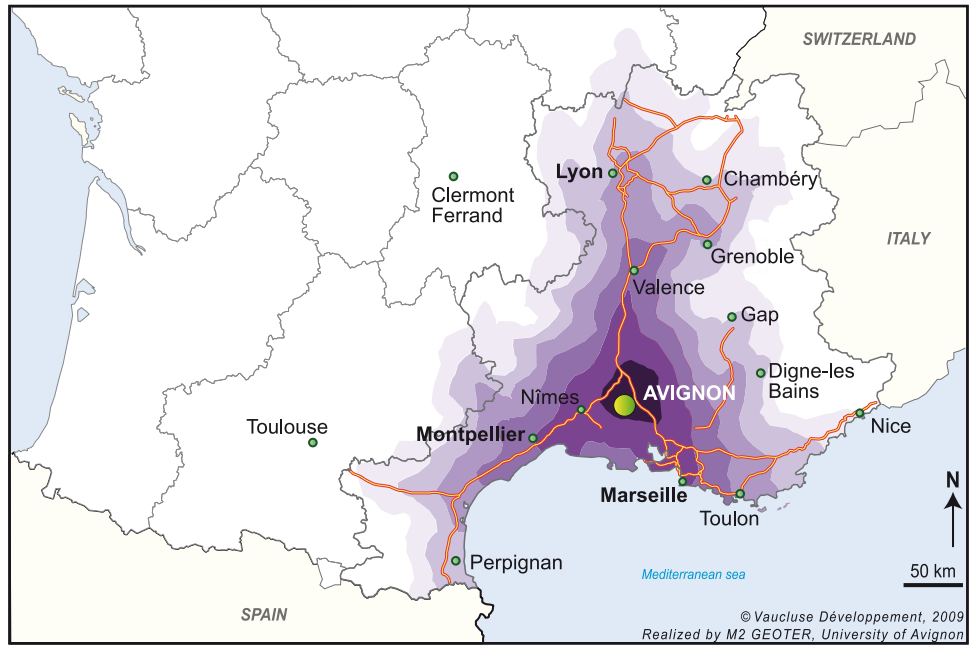
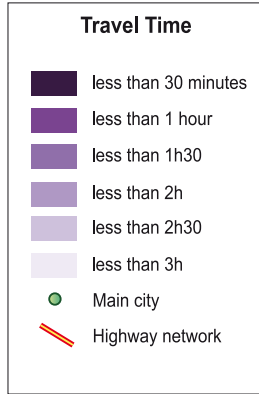
MAIN STAKEHOLDERS AND CLUSTERS IN PV SECTOR

- Main stakeholders and clusters are located in the 3 most powerful and attractive regions of France
- The 3 most important Energy Clusters are located in these 3 regions.



TRAVEL TIME FROM AVIGNON TO THE BIGGEST CITIES OF SOUTH-EAST FRANCE

- 1 million inhabitants living 1 hour far from Vaucluse borders
- 9 million inhabitants living less than 2 hours far from Vaucluse borders

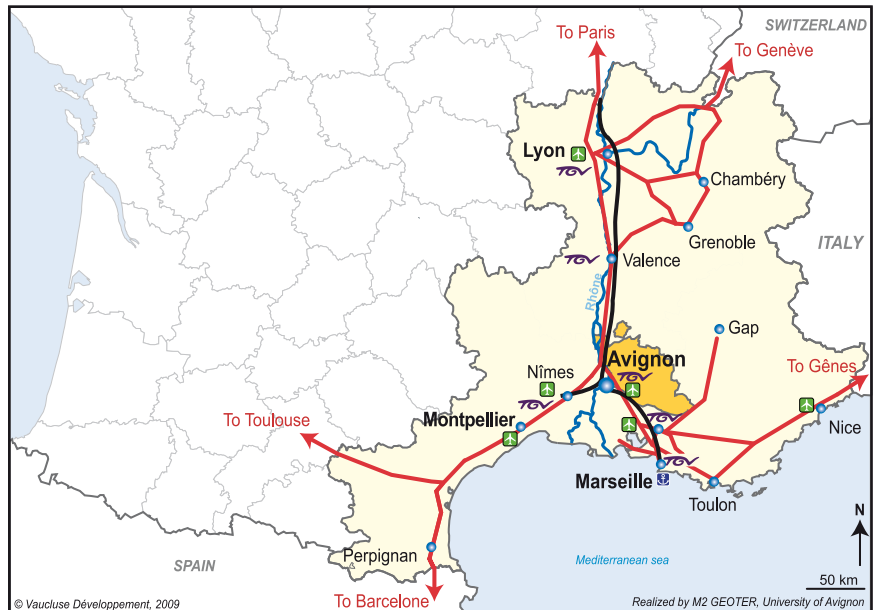
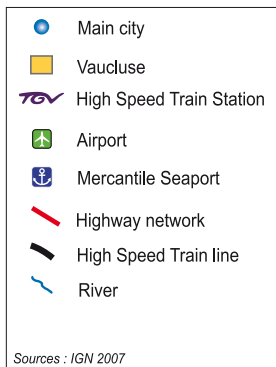


A one-stop shop
for your entire project :

**Vaucluse
Développement**

VAUCLUSE OFFERS PARTICULARLY EFFICIENT TRANSPORT INFRASTRUCTURES

- Travel time to airports:
 - Avignon airport: immediate access
 - Marseille, Montpellier and Lyon international airports are about 1 hour travel time from Vaucluse
- Avignon high-speed train station: more than 60 high-speed trains per day to go to Paris (2 hours 40)
- Very good access to seaports (Marseille, Fos)



The Vaucluse is strategically located for access to the Mediterranean arc and is right on the north/south crossroads for European commercial flows

If you want to set up your business in Provence

Vaucluse Développement will support your project



A one-stop shop for your entire project:

Vaucluse Développement

- Helping you with administrative procedures.
- Proposing global and detailed real estate offers, which cover the entire Vaucluse region.
- Putting you in touch with the right people (government services, chambers of commerce, district authorities, job centres, banks, estate agencies, etc).
- Helping you to obtain financial incentives.
- HR consultancy (training, recruitment, financing).
- Providing.



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